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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 7

## Complete if Known

Application Number	09/551,399
Filing Date	April 17, 2000
First Named Inventor	CHASE et al.
Group Art Unit	2661
Examiner Name	S. HOM
Attorney Docket Number	03493.86913

## U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
SH	1.	RE 33,426		Sugimoto et al.	November 6, 1990	
	2.	4,018,993		Edström	April 19, 1977	
	3.	4,135,156		Sanders, Jr. et al.	January 16, 1979	
	4.	4,181,886		Cooperman	January 1, 1980	
	5.	4,285,064		Hodge	August 18, 1981	
	6.	4,301,533		Acampora et al.	November 17, 1981	
	7.	4,307,461		Brickman et al.	December 22, 1981	
	8.	4,319,353		Alvarez, III et al.	March 9, 1982	
	9.	4,320,504		Alvarez, III et al.	March 16, 1982	
	10.	4,328,543		Brickman et al.	May 4, 1982	
	11.	4,330,857		Alvarez, III et al.	May 18, 1982	
	12.	4,332,026		Alvarez, III et al.	May 25, 1982	
	13.	4,346,470		Alvarez, III et al.	August 24, 1982	
	14.	4,377,793		Horna	March 22, 1983	
	15.	4,381,562		Acampora	April 26, 1983	
	16.	4,485,478		Takada	November 27, 1984	
	17.	4,468,727		Carrison et al.	August 28, 1984	
	18.	4,507,781		Alvarez, III et al.	March 26, 1985	
	19.	4,516,156		Fabris et al.	May 7, 1985	
	20.	4,521,879		Gueldenpfennig et al.	June 4, 1985	
	21.	4,536,874		Stoffel et al.	August 20, 1985	
	22.	4,587,651		Nelson et al.	May 6, 1986	
	23.	4,597,077		Nelson et al.	June 24, 1986	
	24.	4,599,647		George et al.	July 8, 1986	
	25.	4,642,806		Hewitt et al.	February 10, 1987	
	26.	4,644,534		Sperlich	February 17, 1987	
	27.	4,679,191		Nelson et al.	July 7, 1987	
	28.	4,665,516		Middleton et al.	May 12, 1987	
	29.	4,672,602		Hargrave et al.	June 9, 1987	
	30.	4,686,698		Tompkins et al.	August 11, 1987	
	31.	4,703,479		Ikeda	October 27, 1987	
	32.	4,701,907		Collins	October 20, 1987	
	33.	4,706,080		Sincoskie	November 10, 1987	
	34.	4,706,081		Hart et al.	November 10, 1987	
	35.	4,710,917		Tompkins et al.	December 1, 1987	
	36.	4,713,806		Oberlander et al.	December 15, 1987	
	37.	4,720,850		Oberlander et al.	January 19, 1988	
	38.	4,720,873		Goodman et al.	January 19, 1988	
	39.	4,730,305		Acampora et al.	March 8, 1988	
	40.	4,739,510		Jeffers et al.	April 19, 1988	
	41.	4,751,732		Kamitake	June 14, 1988	
	42.	4,769,833		Farleigh et al.	September 6, 1988	
	43.	4,775,974		Kobayashi	October 4, 1988	
	44.	4,777,657		Gillaspie	October 11, 1988	e.g. Abstract, Summary
	45.	4,792,948		Hangen et al.	December 20, 1988	

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STATEMENT BY APPLICANT**

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Sheet 2 of 7

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Application Number	09/551,399
Filing Date	April 17, 2000
First Named Inventor	CHASE et al.
Group Art Unit	2661
Examiner Name	S. HOM
Attorney Docket Number	03943.86913

**U.S. PATENT DOCUMENTS**

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		Number	Kind Code <sup>2</sup> (if known)			
SH	46.	4,797,589		Collins	January 10, 1989	
	47.	4,797,878		Armstrong	January 10, 1989	
	48.	4,811,338		Haruyama et al.	March 7, 1989	
	49.	4,813,039		Yoshihiro	March 14, 1989	
	50.	4,847,829		Tompkins et al.	July 11, 1989	
	51.	4,847,892		Shelley	July 11, 1989	
	52.	4,858,225		deSantis	August 15, 1989	
	53.	4,868,811		Suzuki	September 19, 1989	
	54.	4,876,737		Woodworth et al.	October 24, 1989	
	55.	4,879,711		Rosen	November 7, 1989	
	56.	4,888,769		Deal	December 19, 1989	
	57.	4,890,280		Hirata	December 26, 1989	
	58.	4,894,822		Buhrke et al.	January 16, 1990	e.g., Col. 5-8
	59.	4,916,691		Goodman	April 10, 1990	
	60.	4,933,936		Rasmussen et al.	June 12, 1990	
	61.	4,937,825		Ballard et al.	June 26, 1990	
	62.	4,970,721		Accel et al.	November 13, 1990	
	63.	4,993,015		Fite, Jr.	February 12, 1991	
	64.	4,999,829		Fite, Jr. et al.	March 12, 1991	
	65.	5,014,267		Tompkins et al.	May 7, 1991	
	66.	5,016,243		Fite, Jr.	May 14, 1991	
	67.	5,018,133		Tsukakoshi et al.	May 21, 1991	
	68.	5,019,910		Filmer	May 28, 1991	
	69.	5,023,869		Grover et al.	June 11, 1991	
	70.	5,023,873		Stevenson et al.	June 11, 1991	
	71.	5,027,400		Baji et al.	June 25, 1991	
	72.	5,029,163		Chao et al.	July 2, 1991	
	73.	5,058,138		Figura et al.	October 15, 1991	
	74.	5,065,397		Shiobara	November 12, 1991	
	75.	5,079,764		Orita et al.	January 7, 1992	
	76.	5,081,621		Sugimoto	January 14, 1992	
	77.	5,086,426		Tsukakoshi et al.	February 4, 1992	
	78.	5,090,011		Fukuta et al.	February 18, 1992	
	79.	5,095,480		Fenner	March 10, 1992	
	80.	5,101,267		Morales-Garza	March 31, 1992	
	81.	5,115,433		Baran et al.	May 19, 1992	e.g., Summary of the Invention
	82.	5,121,396		Irvin et al.	June 9, 1992	
	83.	5,130,978		Mobasser	July 14, 1992	
	84.	5,153,876		Sin	October 6, 1992	
	85.	5,177,604		Martinez	January 5, 1993	
	86.	5,184,347		Farwell et al.	February 2, 1993	
	87.	5,191,582		Upp	March 2, 1993	
	88.	5,195,090		Bolliger et al.	March 16, 1993	
	89.	5,195,091		Farwell et al.	March 16, 1993	
	90.	5,208,811		Kashio et al.	May 4, 1993	
	91.	5,223,923		Morales-Garza	June 29, 1993	
SH	92.	5,239,545		Buchholz	August 24, 1993	

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SH	93.	5,224,099		Corbalis et al.	June 29, 1993	
	94.	5,229,990		Teraslinna	July 20, 1993	
	95.	5,229,994		Balzano et al.	July 20, 1993	
	96.	5,237,564		Lespagnol et al.	August 17, 1993	
	97.	5,251,207		Abensour et al.	October 5, 1993	
	98.	5,260,936		Bardet et al.	November 9, 1993	
	99.	5,274,643		Fisk	December 28, 1993	
	100.	5,276,907		Meidan	January 4, 1994	
	101.	5,278,892		Bolliger et al.	January 11, 1994	
	102.	5,280,481		Chang et al.	January 18, 1994	
	103.	5,287,535		Sakagawa et al.	February 15, 1994	
	104.	5,291,479		Vaziri et al.	March 1, 1994	
	105.	5,291,492		Andrews et al.	March 1, 1994	
	106.	5,295,133		Jurkevich	March 15, 1994	
	107.	5,295,137		Jurkevich	March 15, 1994	
	108.	5,301,273		Konishi	April 5, 1994	
	109.	5,303,042		Lewis et al.	April 12, 1994	
	110.	5,303,237		Bergman et al.	April 12, 1994	e.g., Col. 4, line 33 – Col. 5 line 20
	111.	5,305,308		English et al.	April 19, 1994	
	112.	5,307,348		Buchholz et al.	April 26, 1994	e.g. Fig. 8
	113.	5,309,440		Nakamura et al.	May 3, 1994	
	114.	5,313,454		Bustini et al.	May 17, 1994	
	115.	5,313,457		Hostetter et al.	May 17, 1994	
	116.	5,315,591		Brent et al.	May 24, 1994	
	117.	5,319,705		Halter et al.	June 7, 1994	
	118.	5,319,707		Wasilewski et al.	June 7, 1994	
	119.	5,325,421		Hou et al.	June 28, 1994	
	120.	5,327,421		Hiller et al.	July 5, 1994	
	121.	5,331,631		Teraslinna	July 19, 1994	
	122.	5,335,276		Thompson et al.	August 2, 1994	
	123.	5,337,044		Folger et al.	August 9, 1994	
	124.	5,351,146		Chan et al.	September 27, 1994	
	125.	5,343,465		Khalil	August 30, 1994	
	126.	5,394,561		Freeburg	February 28, 1995	
	127.	5,345,445		Hiller et al.	September 6, 1994	
	128.	5,345,446		Hiller et al.	September 6, 1994	
	129.	5,355,362		Gorshe et al.	October 11, 1994	
	130.	5,361,259		Hunt et al.	November 1, 1994	
	131.	5,363,369		Hemmady et al.	November 8, 1994	
	132.	5,365,265		Shibata et al.	November 15, 1994	
	133.	5,365,524		Hiller et al.	November 15, 1994	
	134.	5,373,550		Campbell et al.	December 13, 1994	
	135.	5,381,408		Brent et al.	January 10, 1995	e.g., Col. 2-3
	136.	5,387,941		Montgomery et al.	February 7, 1995	
	137.	5,390,169		Bernstein	February 14, 1995	
	138.	5,390,175		Hiller et al.	February 14, 1995	
	139.	5,392,277		Bernstein	February 21, 1995	

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Application Number	09/551,399
Filing Date	April 17, 2000
First Named Inventor	CHASE et al.
Group Art Unit	2661
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Attorney Docket Number	03493.86913

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SH	140.	5,392,402		Robrock, II	February 21, 1995	
	141.	5,400,329		Tokura et al.	March 21, 1995	
	142.	5,400,401		Wasilewski et al.	March 21, 1995	
	143.	5,402,418		Shibata et al.	March 28, 1995	
	144.	5,402,478		Hluchyj et al.	March 28, 1995	
	145.	5,404,505		Levinson	April 4, 1995	
	146.	5,408,237		Patterson et al.	April 18, 1995	
	147.	5,408,464		Jurkevich	April 18, 1995	
	148.	5,412,647		Giroux et al.	May 2, 1995	e.g., Col. 2-4
	149.	5,412,660		Chen et al.	May 2, 1995	
	150.	5,416,770		Stoner et al.	May 16, 1995	
	151.	5,420,857		Jurkevich	May 30, 1995	
	152.	5,420,866		Wasilewski	May 30, 1995	
	153.	5,422,882		Hiller et al.	June 6, 1995	
	154.	5,423,002		Hart	June 6, 1995	
	155.	5,425,029		Hluchyj et al.	June 13, 1995	
	156.	5,426,635		Mitra et al.	June 20, 1995	
	157.	5,426,636		Hiller et al.	June 20, 1995	
	158.	5,426,640		Hluchyj et al.	June 20, 1995	
	159.	5,426,773		Chabanet et al.	June 20, 1995	
	160.	5,428,607		Hiller et al.	June 27, 1995	
	161.	5,428,608		Freeman et al.	June 27, 1995	
	162.	5,428,616		Field et al.	June 27, 1995	
	163.	5,428,629		Gutman et al.	June 27, 1995	e.g., Col. 4
	164.	5,434,850		Fielding et al.	July 18, 1995	e.g., Col. 7, lines 16-38
	165.	5,434,856		Huang	July 18, 1995	
	166.	5,436,891		Grossman et al.	July 25, 1995	
	167.	5,438,565		Hemmady et al.	August 1, 1995	
	168.	5,446,726		Rostoker et al.	August 29, 1995	
	230.	5,446,730		Lee et al.	August 29, 1995	
	169.	5,448,564		Thor	September 5, 1995	
	170.	5,450,394		Gruber et al.	September 12, 1995	
	171.	5,450,395		Hostetter et al.	September 12, 1995	
	172.	5,452,293		Wilkinson et al.	September 19, 1995	
	173.	5,457,808		Osawa et al.	October 10, 1995	
	174.	5,457,811		Lemson	October 10, 1995	
	175.	5,463,777		Bialkowski et al.	October 31, 1995	
	176.	5,469,468		Schilling	November 21, 1995	
	177.	5,469,495		Beveridge	November 21, 1995	
	178.	5,471,473		Tejima	November 28, 1995	
	179.	5,473,612		Dehner, Jr. et al.	December 5, 1995	
	227.	5,481,561		Fang	January 2, 1996	
	180.	5,481,609		Cohen et al.	January 2, 1996	
	181.	5,490,252		Macera et al.	February 6, 1996	
	182.	5,491,695		Meagher et al.	February 13, 1996	
	183.	5,495,607		Pisello et al.	February 27, 1996	
SH	184.	5,506,904		Sheldrick et al.	April 9, 1996	

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SH	185.	5,517,502		Bestler et al.	May 14, 1996	
	186.	5,519,699		Ohsawa	May 21, 1996	
	187.	5,526,404		Wiedeman et al.	June 11, 1996	
	188.	5,526,489		Nilakantan et al.	June 11, 1996	
	189.	5,539,884		Robrock, II	July 23, 1996	
	190.	5,565,910		Rowse et al.	October 15, 1996	
	191.	5,566,173		Steinbrecher	October 15, 1996	
	192.	5,579,370		Fukushima et al.	November 26, 1996	
	193.	5,587,743		Montgomery et al.	December 24, 1996	
	194.	5,594,782		Zicker et al.	January 14, 1997	
	195.	5,628,011		Ahamed et al.	May 6, 1997	
	196.	5,689,553		Ahuja et al.	November 18, 1997	
	197.	5,727,065		Dillon	March 10, 1998	
	198.	5,796,727		Harrison et al.	August 18, 1998	
SH	199.	5,852,721		Dillon et al.	December 22, 1998	e.g., Abstract, Figs. 1-2

**FOREIGN PATENT DOCUMENTS**

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
SH	200.	Europe	0 324 363	A2		July 19, 1989		
SH	201.	Europe	0 535 890	A2		April 7, 1993		

Examiner  
Signature

S. Hom

Date  
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### OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	202.	"Active-Networks New Networking System Slashes Costs and Unleashes Productivity!", <u>True Networking Applications from Advanced Compression Technology, Inc.</u> , Volume 1, Number 1	
	203.	"Reasonable Connectivity Through Multimedia Networking System", <u>Technological Applications</u> , pp. 30-32	
	204.	"Multiplex Transmission in Carrier Telephony", <u>Reference Data for Radio Engineers</u> , Fifth Edition, pp. 30-23 through 30-27	
	205.	"Contact – The SDM-HDLC Voice Packetizer Transmits Voice Over a Packet Network", <u>Advanced Compression Technology, Inc.</u> , pp. 1-2	
SH	206.	"Model 710 Communications Subsystem", <u>Harris Corporation</u> , 1986	
SH	207.	"Model 712 Communications Subsystem", <u>Harris Corporation</u> , 1986	
	208.	"Fast-Module T-1/E-1 Performance for CPX 10/20 Switch", <u>Dynatech Communications</u> , pp. 1-8	
SH	209.	<u>9800 Frame Relay Commands Reference Manual</u> , 1993	
	210.	Briley, J.B., "MS-1000/MS-2000 Multimedia Switches", <u>Certified Network Systems and Services</u> ,	
SH	229.	Collier, A., "Wellfleet Unveils Two Bridge-Routers Aimed at Branch Networking", <u>Communications Week</u> , 1993	
	211.	Cooper, N., "Network Technology for Multimedia", pp. 6/1-6/3s	
SH	212.	Fleming, S., "What Users Can Expect From New Virtual Wideband Services", <u>Wideband Services</u> , 1990, pp. 29-35	
	213.	Friend, G.E., et al., "Fiber Optic and Satellite Communications", <u>Understanding Data Communications</u> , pp. 1-168	
	214.	Friend, G.E., et al., "Multiplexing Techniques", <u>Understanding Data Communications</u> , pp. 161-176	
	215.	Friend, G.E., et al., "Fiber Optic and Satellite Communications", <u>Understanding Data Communications</u> , pp. 202-207	
	216.	Friend, G.E., et al., "Satellite Communication Systems", <u>Understanding Data Communications</u> , pp. 243-270	
SH	217.	Gordon, G.D., et al., "Modulation, Multiplexing, and Multiple Access", <u>Principles of Communications Satellites</u> , 1993, pp. 114-135	
SH	228.	Llana, Jr., A., "Bringing the Telephone to Mexico – Satellites Work in a Rural Environment", <u>Via Satellite</u> , 1992, pp. 52-54	
SH	218.	Malone, R., "Frame Relay Service Pricing: Contrasting the Competitors", <u>Business Communications Review</u> , 1993, pp. 32-37	

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**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

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	220.	Pinsky, D., "Total Compression - Frame Relay Net Runs Voice, Data", <u>World News</u> .	
	221.	Platt A. et al., "Some Aspects of Traffic Management in Frame Relay Networks", pp. 23/1-23/6	
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SH	224.	Roy, A.K., "Frame Relay and Its Transportation Dilemma", <u>Proc. 1991 Singapore Int. Conf. on Networks</u> , 1991, pp. 393-400	
SH	225.	Salamoff, S.B., et al., <u>VSAT System Considerations for the ORION Satellites</u> , 1992, pp. 1-7	
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